	PART	1				
CONTRACT INSPECTION RE			-388			
0:		DATE	16 April 1969	<u> </u>		
- -)T.	INSP	ECTION REPORT NO. (If	final, so st	ate)	
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(If yes, indicate items, quanti	ty, and cos	t on reve	rse side.)			J '	<u>""</u>
		INCE	NTIVES				
IS THIS AN INCENTIVE CONTRACT IF YES, CHECK TYPE	YES	No.	NOTE: USE REVERSE SIDE	FOR COMM	ENTO		
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L CENTURMANCE				T CONTAIN	INCENTIVE	EVALUAT	10N.
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NARRATIVE REPORT		FINAL
Item 1: Mr. C.S. McCamy, Chief, Pi	otographic Besearch Section	n, Metrology ovide an

up-to-date report on the funds expended. He did state, however, that there was "no worry" as to sufficient funds to print one hundred copies of the results of the study if that was the quantity wanted.

- a. A draft copy of the results of the study was received by the Item 2: project monitor on 1 Feb 1965. Approval for the production of one hundred copies will probably be given in about two weeks.
- b. Mr. McCamy stated that he would take action, at MBS, to have a progress report within the next week or two. This report will include data on the expenditure of funds.

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Approved For Release 2001/07			8 B0 4747A00110004	DATE
R & D CAT	ALOG F	ORM		6 January 1965
1. PROJECT TITLE/CODE NAME	2. SHO	RT PROJECT	DESCRIPTION	
Microdensitometer Calibra- tion/Evaluation Study			the methods of ${f c}$ ometers.	alibrating and evaluating
3. CONTRACTOR NAME			4. LOCATION OF CONTE	
National Bureau of Standard	s		Washington,	Avenue at Van Ness, N.W. D. C.
s. class of contractor Government Agency		1	of contract e and Materials	
7. FUNDS	8. REQ	UISITION 1	10.	9. BUDGET PROJECT NO.
FY 19 64	550	0-2582-0	64	NP-S-5
FY 1965		ECTIVE CON	NTRACT DATE	11. SECURITY CLASS.
11 19 09	,	· · · · · · · · · · · · · · · · · · ·		A. A Conf. T Unclass.
FY 19 \$	10	Nov 63	- 27 Jan '65	W Unclass.
12. RESPONSIBLE DIRECTORATE/OFFICE/PRO	JECT OFF	ICER TELEF	PHONE EXTENSION	
DDI/NPIC/P&DS				
13. REQUIREMENT/AUTHORITY At prese	nt the	re is n	o acceptable. st	andardized technique for
the calibration of microden				
valid comparison between th	e resu	lts obt	ained by our in-	house facilities and other
agencies, both governmental 14. Type of WORK TO BE DONE This ap	and c	ommerci	Bl.	stondowd this b is secont
able to the American Standa	rda Va brred	researd sociati	on and can becom	standard which is accept- e invaluable as a tool for
comparison of intensive mic				
by numerous agencies, both				
15. CATEGORIES OF EFFORT MAJOR CATEGORY			SUB.CA	TEGOR IES
Special Techniques and Stud	iec			Evaluation - Standards
bpectar reemirques and boad	100	······································		Film (black & white)
			•	- Quality control
A report outlining methods for calibration; and recommended the evaluation of microdens	of cal ended	ibrat io : procedu:	n in use today;	the recommended procedures
			calibrating the	translational scale and
17. SUPPORTING OR RELATED CONTRACTS (A	gency &	Other)/co	ordination Relate	d contract: Project
997013, contract number				"Microdensitometer
Study".				25X1A
hands of the personnel who	odensi produc e-art or be e the	tometry e the pi results tter, ti level o	is one of the m hotographic imag in imagery havi he production pe f quality of rep	ost valuable tools in the ery for the photo-inter- ng resolution in excess rsonnel must have reliable roductions of the imagery.

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DEPUTY DIRECTOR

19. APPROVED BY AND DATE

OFFICE

magnitude closer to perfection than the production equipment.

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expected to provide us and - - through the Bureau of Standards -- the photographic

This contract is

R & D CATALOG FORM (Continued)

- 16. evaluating the resolution; and either recommendation for the design of a special densitometer for the calibration of step tablets for this purpose, or physical standards for the calibration and evaluation of microdensitometers.
- 18. industry in general with acceptable standards for a datum plan of reference in microdensitometry.

Physical standards will be prepared to permit the calibration of the translational stage. These standards will be in the form of stage micrometers with graduated scales of known spacing. Physical standards bearing repetitive patterns will be prepared for the study of the resolution of microdensitometers. Patterns having spatial frequencies up to 1,000 lines per millimeter will be prepared. Patterns with spatial frequencies as high as 2,000 lines per millimeter will be prepared, if possible, but the modulation will not be as high as it would be at the lower frequencies. An experimental study of methods of densitometry will be made to determine the most meaningful and reliable means of calibrating step tablets to be used, in turn, to calibrate microdensitometers. The photometric geometry employed in the American Standard Method for measuring diffuse transmission density is so dissimilar to the photometric geometry ordinarily employed in microdensitometry that it is to be expected that a different fundamental definition of density would be adopted. The effect of photometric geometry on such calibration procedures would be studied with regard to modern photographic materials of particular interest to the sponsor.

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			ESTIMATED COMPLETION DATE		
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National Bureau of Stand	lards				
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Microdensitometer Calibr	ation $arepsilon$	ınd Evalı	ation Study		٠
THE CONTRACTOR IS ON SCHEDULE			THE CONTRACTOR WILL PROBABLY REM	AIN WITHIN AI	LOCATED
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			OR OTHER END ITEM BEEN RECEIVED details on reverse side.)	FROM THE CON	TRACTOR
السسا الشائق السسا	rered to	30 Sept	. 1964. No additional r	eports rec	eived.
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			CONTRACTOR DURING THIS PERIOD?	YES	X NO
(If yes, indicate items, quantity	, and cos	t on rever	se side.)		
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1. OUTSTANDING 3.	X ABOVE	AVERAGE	5. BELOW AVERAGE	7. UNSAT	ISFACTORY
2. EXCELLENT 4.	AVERA	GE	6. BARELY ADEQUATE	Ē	
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PRODUCTION AND/OR OTHER END ITEMS DATE OF LAST CONTACT WITH CONTRACTOR 13 Nov 64	25X1	1A	OTHER GOVERNMENT PROPERTY DIVISION		051
PRODUCTION AND/OR OTHER END ITEMS DATE OF LAST CONTACT WITH CONTRACTOR	25X1	1A	•		25X
PRODUCTION AND/OR OTHER END ITEMS DATE OF LAST CONTACT WITH CONTRACTOR	25X1	1A	•		25X
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NAME OF CONTRACTOR	,, , , , , , , , , , , , , , , , , , ,				
National Bureau of Standar	rds				
TYPE OF COMMODITY OR SERVICE					
Microdensitometer Calibrat	tion and	l Evalua	tion Study		
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	REPORT. I	PROTOTYPE.	OR OTHER END ITEM BEEN RECEIVED F	ROM THE CONT	FRACTOR
Two monthly reports have	been re	ceived.	The last covers the prog	ress	
through 30 September 1964		IVERED TO	CONTRACTOR DURING THIS PERIOD?	T YES	X NO
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		RECOMMEN	DED ACTION	·····	
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ITEM	REC'D	DOES NOT	ITEM	REC'D	DOES NO
PROTOTYPES			MANUALS		
DRAWINGS AND SPECIFICATIONS			FINAL REPORT		
PRODUCTION AND/OR OTHER			SPECIAL TOOLING		
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date of Last contact with contractor 27 Aug 64					
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Approved For Release 2001/07/16: GIA-RDP79

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CONTRACT INSPECTION	REPORT					
			65-388			
TO:			DATE			
			1 Oct. 64			
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			ESTIMATED COMPLETION DATE			**********
.			Jan. 65			
NAME OF CONTRACTOR						
Bureau of Standards				·		
TYPE OF COMMODITY OR SERVICE						
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Contractor has submitted one					ess 1	L S
satisfactory but contractor	seems re	Luctant	to provide reports.	_	-	_
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TYPE OF COMMODITY OR SERVICE							
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FORM 1897 USE 6-64 1897 PREVIOUS		SEC		GROUP 1 Excluded from automatic			(12-36
EDITION		(When Fil	led In)	downgrading and declassification			

Contractor seems reluctant to provide reports.

Contact has been onto when possible.

Bureau of Standards when possible.

. Approved For Release 2001/07/16: CIA-RDP78B04747A002100040011-4 Microolinatoreta Gral.

Progress Report

Project 2120431

Period ending September 30, 1964

This project is concerned with methods and physical standards for the calibration of microdensitometers.

As part of a survey of methods of calibration of microdensitometers, the 6594th Test Squadron (AFSPPL) (AFSC), Westover Air Force Base, Massachusetts, was visited.

During experiments to improve the quality of high-frequency resolution charts, it was found that development times only two percent of those previously used, and generally recommended, produced patterns which were superior in resolution. Although this effect was theoretically predicted, the range of developing times had not previously been carried to the extremes necessary to observe the effect. The coarse focusing system on the camera used for the production of such charts has been very much refined to permit more rapid refocusing when it is necessary to change some part of the system. The instrument is ordinarily arranged for ASA resolution tests and must be changed for the production of charts. The reduction ratio of the instrument was found to differ from the nominal value by nearly two percent. A series of adjustments were made and the magnification is now correct within the experimental error of measurement. For the production of high-frequency resolution charts, master negatives have been prepared at proper magnification. To assist in evaluating the uniformity of such charts, a new aperture was made for the microdensitometer.

Microdensitometer traces have been made on a variety of reticles to determine the ones most suitable for calibrating the translational scales of microdensitometers at various scanning speeds.

The standard microdensitometer to measure the densities on step tablets for calibrating microdensitometers has been further refined. Modifications were made to permit easier and better alignment. In tests of the reliability of the mechanism for changing the illuminance at the film plane, it was found that the calibrated filters mounted in cardboard mounts can become jammed in the changing mechanism, with resulting damage to the calibrated filters. To avoid such damage, the filters have been remounted in metal mounts. Densities are being measured on a number of films to demonstrate the variation in optical density with measuring numerical aperture.

Estimated expenditures to date are

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	٠, -		29 August 1964		
ENGINEERING SECTION/CB/P	D\OŢ`,	·	INSPECTION REPORT NO. (If final, s	o state)	
•			8		
		· [ESTIMATED COMPLETION DATE		
			January 1965		
NAME OF CONTRACTOR					
National Bureau o	f Standa	rds			
TYPE OF COMMODITY OR SERVICE					
Microdensitometers		1	THE CONTRACTOR WILL PROBABLY REMA	IN WITHIN AL	LOCATED
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			OMMENDATION AND/OR ACTION OF SPON REVERSE HEREOF. IF KNOWN, INDICA		
PER CENT OF WORK COMPLETED 50%			TIONAL FUNDS INVOLVED.		
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HAS AN INTERIM REPORT, FINAL	REPORT, PR	OTOTYPE.	OR OTHER END ITEM BEEN RECEIVED F	ROM THE CONT	RACTOR
DURING THE PERIOD? YES X	o (If ye	s, give	details on reverse side.)		
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HAS GOVERNMENT-OWNED PROPERTY	Y BEEN DELI	VERED TO	CONTRACTOR DURING THIS PERIOD?	YES	X NO
(If yes, indicate items, quantity,	, and cost	on tever	se side.)		
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	OVERALL P	PERFORMA	NCE OF CONTRACTOR		
1. OUTSTANDING 3.	X ABOVE A	VERAGE	5. BELOW AVERAGE 7	· UNSAT	SFACTORY
2. EXCELLENT 4.	AVERAGE	3	6. BARELY ADEQUATE		
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REVERSE SIDE.					
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	,	COMMENT	· · · · · · · · · · · · · · · · · · ·		
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PRODUCTION AND/OR OTHER			SPECIAL TOOLING		ļ
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Progress satisfactory on this contract. Although no reports have been forwarded, personal interviews have been held with Mr. McCamy and his staff on a monthly basis.

Progress Report

Project 21.20431

From beginning of project to June 30, 1964

This project is concerned with methods and physical standards for the calibration of the length scales and photometric scales of microdensitometers.

Before a microdensitometer can be calibrated with respect to the length and uniformity of travel of the stage, it is necessary to ascertain the regularity with which the table moves with respect to the ways and the screw. The various kinds of measurements which must be made have been ascertained and a method applicable in the field has been developed for measuring these characteristics. These methods have been applied by scientists in the Engineering Metrology Section of the National Bureau of Standards to the microdersitometer in use in the Photographic Research Section. By the use of a collimator and mirror system, it was determined that the angular tilt of the table measured in the center of travel due to direction of travel was found to be 0.4 seconds in the vertical plane and 1.6 seconds in the horizontal plane. The spacing between the microscope mount and the working surface on the table was found by dial indicator not to vary by more than 0.0002 inch with the table traversed through the full range of 25 centimeters.

Resolution targets having spatial frequencies to 1,000 lines per millimeter have been produced. Further experiments are being done to improve the quality of such resolution charts.

In the past, the density scales of microdensitometers have been calibrated by means of photographic step tablets having known densities as defined in the American Standard for Diffuse Transmission Density. This kind of density is inappropriate for the calibration of microdensitometers because the geometrical conditions of illumination and sensing in such instruments differs greatly from the geometrical conditions specified in the American standard. Microdensitometers commonly employ high numerical-aperture illumination and sensing. These high numerical apertures are necessitated by the high resolution required of these instruments. In the American standard method, the sample is illuminated with a pencil of light having a very small cone angle and the light transmitted by the film is collected by an integrating sphere regardless of the angle at which it leaves the sample. A new kind of density has been defined, having geometrical conditions of illumination and sensing identical to those employed in microdensitometry. A "standard microdensitometer" has been constructed to calibrate photographic step tablets for the purpose of calibrating microdensitometers. The numerical apertures of the illuminating and sensing system are variable from 0.012 to 0.65.

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ENGINEERING SECTION/CB/PD	/OL		INSPECTION REPORT NO. (If final, so	state)	
			estimated completion date 15 Merch 1965		
NAME OF CONTRACTOR					
National Bureau o	f Stand	ards			
TYPE OF COMMODITY OR SERVICE					
Evaluation of Microdensito	meters				
THE CONTRACTOR IS ON SCHEDULE X YES NO			THE CONTRACTOR WILL PROBABLY REMAIN FUNDS YES	WITHIN ALI	OCATED
THE CONTRACTOR WILL COMPLETE TASK WITH	IN ALLOTTE	D TIME	ALL PHASES OF THE TECHNICAL PROGRESS	S ARE SATIS	SFACTORY
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No progress report has been received to date.

All personnel immediately concerned with the project have received at least "Agency Interest Only elegrances. It is now necessary to clear or at least initiate clearance proceedings for the problems encountered.

The forms 1841 will delivered to contract monitor in the near future.

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Approximation Ap

GROUP 1
Excluded from automatic
downgrading and
declassification

Security clearances have been granted to all of the individuals of Mr. McCamy's staff who are directly concerned with the project. An invoice was received and approved by the contract monitor. The expenditures as of 1 May 1964 was approximately

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It was learned that the Administrative Office of MBS, that is handling the contract, does not have any CIA cleared personnel. Three 1841 forms were given to who was requested to give one to each She said timt they would be filled out as soon as possible. signed a "Memorandum of Understanding" prior to briefing her on 21 May 1964. Form 1841 was submitted for each on 26 May 1964.

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In addition briefings were given to Messrs. and All of these people signed a "Hemorandum of Understanding" prior to their briefing. It was impressed upon them that it is necessary to keep all correspondence concerning this contract in a safe to which only they have access. A safe is on requisition, however, it is necessary at present to keep all material in Mr. safe. No change in this arrangement is anticipated until delivery of their safe. It was also requested that a summary of progress on the contract also be submitted with the invoice on a monthly besis.

Approved For Release 2001/07/16: CIA-RDP78B04747A001100040011-4

SECRET (When Filled In)

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TO:	<u>.</u>		DATE				
			27 April 1964 INSPECTION REPORT NO. (If final, so state)				
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•			estimated completion date March 65				
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Bureau of Standards							
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(When Filled In)

GROUP 1
Excluded from automatic downgrading and declassification

Contract is not in operation because of clearances which are now pending. Latest information from the Security Branch states that the clearances should be awarded within two weeks of this date. (28 April 1964)

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Pending clearances of personnel concerned, no work has been done on this contract.

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Although funds are available to the National Bureau of Standards, work on this study is pending clearances of personnel involved. An Agency Secret has been requested, but as yet no approval.